

Chapter - 9 (Physics)

Date 4/5/20.

(Force and Laws of motion)

Force $\hat{=}$ Force is an action of one body on other body. In other words, force is a push or pull.

- \rightarrow It is a vector quantity
- \rightarrow S.I unit of force is Newton (N).
- \rightarrow In C.G.S system unit of force is dyne.

Effect of force $\hat{=}$

(i) Force can move a body lying in rest.

For example $\hat{=}$ Kicking a stationary football.

2.) Force can stop a moving body

For example $\hat{=}$ A goalkeeper stopping a football moving towards the goal post.

3.) Force can change the speed of a moving body.

For example $\hat{=}$ If your friend is riding a bicycle and you push the bicycle in same direction, the speed of bicycle increase and pull in opposite direction, decrease the speed of bicycle.

4.) Force can change the direction of the moving object.

For ex $\hat{=}$ When a batsman hits the ball it change the direction of ball.

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5) Force can change the shape and size of an object.

For ex: When we stretch a rubberband, its shape and size changes.

6) Force can rotate a body.